



Maryland HIV/AIDS Quarterly Update

First Quarter 2020

Data reported through March 31, 2020
 Center for HIV Surveillance, Epidemiology and Evaluation
 Infectious Disease Prevention and Health Services Bureau
 Prevention and Health Promotion Administration
 Maryland Department of Health
<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>
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Section I – Technical Notes

HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with HIV be reported by name to the Maryland Department of Health. As per the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02, physicians are required to report patients in their care with diagnoses of HIV or AIDS and infants born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report patients with laboratory results indicating HIV infection.

Report Changes

In order to be responsive to changing data needs, the following updates have been made to this report:

- The Background Information section has been replaced with the Technical Notes section.
- Tables describing new HIV diagnoses have been restructured. All new HIV and AIDS diagnoses will appear in Table 1. All laboratory data and outcomes for new HIV diagnoses will be described in Table 2.
- Mean years from HIV to AIDS diagnosis and the percentage of late HIV diagnoses among AIDS diagnoses is no longer presented in this report. Aggregate disease progression data by year is presented in Figure 10 of the annual reports.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people that have been diagnosed with HIV by a health care provider, were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2019, are receiving medical care (often only at facilities in Maryland), and only includes information that has been reported to the health department.

Data presented were reported to the Maryland Department of Health through June 30, 2020. Reported

new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2019.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to reporting delays, estimates by exposure category and mortality are preliminary.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

New HIV Infections:

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection, among people living with HIV, is 13.8 percent in the United States.¹ Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 10.8 percent in 2018.

AIDS Diagnoses:

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent.

Mortality:

People are assumed to be alive unless reported as deceased to the Maryland Department of Health. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Engagement in HIV Care:

Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. The presence of these lab tests is used as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Viral Suppression:

Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a low number of copies of virus per milliliter of blood,

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2014–2018. HIV Surveillance Supplemental Report 2020;25(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2020. Accessed May 2020.

below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, is known as viral suppression. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

Geographic Distribution:

Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Estimates describing the number of people living with diagnosed HIV use current residence. Current residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care since prior to 2009. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

Residents of Correctional Facilities:

People living with diagnosed HIV who were reported to be residing in a state or federal prison will be described for Maryland only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers.

Sources of Data:

Information on HIV and AIDS diagnoses, including residence, vital status, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2020.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.

- All clinical/laboratory information if it is describing less than five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Glossary of Terms

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of September 30, 2019 and not reported to have died as of March 31, 2020.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of March 31, 2020.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Population: Population estimate for July 1, 2018.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2018.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of September 30, 2019 not reported to have died as of March 30, 2020.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

Maryland Department of Health Non-Discrimination Statement

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Section II – Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During October 1, 2018 through September 30, 2019, by Jurisdiction of Residence at Diagnosis, Reported through March 31, 2020

Jurisdiction of Residence at Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+			Reported AIDS Diagnoses Among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Allegany	62,278	3	0.3%	4.8	2	0.4%	3.2
Anne Arundel	483,036	48	5.1%	9.9	26	5.4%	5.4
Baltimore City	510,571	182	19.4%	35.6	125	25.9%	24.5
Baltimore	699,848	132	14.1%	18.9	70	14.5%	10.0
Calvert	77,463	3	0.3%	3.9	2	0.4%	2.6
Caroline	27,707	3	0.3%	10.8	0	0.0%	0.0
Carroll	143,269	5	0.5%	3.5	6	1.2%	4.2
Cecil	86,608	6	0.6%	6.9	0	0.0%	0.0
Charles	134,428	37	4.0%	27.5	12	2.5%	8.9
Dorchester	27,228	2	0.2%	7.3	0	0.0%	0.0
Frederick	214,057	11	1.2%	5.1	0	0.0%	0.0
Garrett	25,427	0	0.0%	0.0	0	0.0%	0.0
Harford	214,532	10	1.1%	4.7	4	0.8%	1.9
Howard	268,234	18	1.9%	6.7	5	1.0%	1.9
Kent	17,222	3	0.3%	17.4	2	0.4%	11.6
Montgomery	877,597	150	16.0%	17.1	74	15.4%	8.4
Prince George's	760,274	278	29.7%	36.6	135	28.0%	17.8
Queen Anne's	42,794	3	0.3%	7.0	0	0.0%	0.0
Saint Mary's	93,234	6	0.6%	6.4	0	0.0%	0.0
Somerset	22,469	0	0.0%	0.0	0	0.0%	0.0
Talbot	32,218	0	0.0%	0.0	0	0.0%	0.0
Washington	127,623	5	0.5%	3.9	6	1.2%	4.7
Wicomico	86,947	20	2.1%	23.0	9	1.9%	10.4
Worcester	45,604	2	0.2%	4.4	1	0.2%	2.2
Corrections	--	9	1.0%	--	3	0.6%	--
Total	5,080,666	936	100.0%	18.4	482	100.0%	9.5

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During October 1, 2018 through September 30, 2019, Linked to Care, Late Diagnosis, First CD4 Test Result, and Mean Years from HIV Diagnosis by Jurisdiction of Residence at Diagnosis, Reported through March 31, 2020

Jurisdiction of Residence at HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+					
	No.	Linked to Care		% Late HIV Diagnoses	First CD4 Test Result	
		% 1 mo.	% 3 mo.		% with Test	Median Count
Allegany	3	***	***	***	***	***
Anne Arundel	48	87.5%	93.8%	25.0%	91.7%	401
Baltimore City	182	87.4%	90.1%	25.3%	84.1%	350
Baltimore	132	90.9%	95.5%	21.2%	94.7%	392
Calvert	3	***	***	***	***	***
Caroline	3	***	***	***	***	***
Carroll	5	80.0%	100.0%	***	100.0%	282
Cecil	6	66.7%	66.7%	0.0%	66.7%	525
Charles	37	83.8%	91.9%	21.6%	94.6%	357
Dorchester	2	***	***	***	***	***
Frederick	11	63.6%	81.8%	***	72.7%	352
Garrett	0	--	--	--	--	--
Harford	10	80.0%	90.0%	***	90.0%	330
Howard	18	88.9%	94.4%	22.2%	94.4%	455
Kent	3	***	***	***	***	***
Montgomery	150	90.0%	94.7%	34.0%	93.3%	289
Prince George's	278	88.8%	92.4%	22.3%	90.6%	395
Queen Anne's	3	***	***	***	***	***
Saint Mary's	6	83.3%	83.3%	0.0%	100.0%	649
Somerset	0	--	--	--	--	--
Talbot	0	--	--	--	--	--
Washington	5	80.0%	100.0%	***	100.0%	616
Wicomico	20	90.0%	90.0%	30.0%	90.0%	445
Worcester	2	***	***	***	***	***
Corrections	9	88.9%	88.9%	22.2%	100.0%	466
Total	936	88.2%	92.6%	24.5%	90.7%	377

*** Data withheld due to low population counts and/or small numbers

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2019, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through March 31, 2020

Jurisdiction of Residence	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	62,278	77	0.2%	123.6	808	103	0.3%	165.4	604	33.8%
Anne Arundel	483,036	1,316	4.0%	272.4	367	1,363	4.3%	282.2	354	3.6%
Baltimore City	510,571	11,536	35.0%	2,259.4	44	10,823	34.3%	2,119.8	47	-6.2%
Baltimore	699,848	3,595	10.9%	513.7	194	3,527	11.2%	504.0	198	-1.9%
Calvert	77,463	108	0.3%	139.4	717	127	0.4%	163.9	609	17.6%
Caroline	27,707	68	0.2%	245.4	407	64	0.2%	231.0	432	-5.9%
Carroll	143,269	152	0.5%	106.1	942	165	0.5%	115.2	868	8.6%
Cecil	86,608	119	0.4%	137.4	727	144	0.5%	166.3	601	21.0%
Charles	134,428	527	1.6%	392.0	255	624	2.0%	464.2	215	18.4%
Dorchester	27,228	130	0.4%	477.4	209	145	0.5%	532.5	187	11.5%
Frederick	214,057	363	1.1%	169.6	589	449	1.4%	209.8	476	23.7%
Garrett	25,427	10	0.0%	39.3	2,542	16	0.1%	62.9	1,589	60.0%
Harford	214,532	460	1.4%	214.4	466	500	1.6%	233.1	429	8.7%
Howard	268,234	582	1.8%	217.0	460	678	2.1%	252.8	395	16.5%
Kent	17,222	38	0.1%	220.6	453	46	0.1%	267.1	374	21.1%
Montgomery	877,597	4,310	13.1%	491.1	203	3,605	11.4%	410.8	243	-16.4%
Prince George's	760,274	7,503	22.8%	986.9	101	7,854	24.9%	1,033.0	96	4.7%
Queen Anne's	42,794	54	0.2%	126.2	792	54	0.2%	126.2	792	0.0%
Saint Mary's	93,234	138	0.4%	148.0	675	159	0.5%	170.5	586	15.2%
Somerset	22,469	60	0.2%	267.0	374	92	0.3%	409.5	244	53.3%
Talbot	32,218	66	0.2%	204.9	488	78	0.2%	242.1	413	18.2%
Washington	127,623	297	0.9%	232.7	429	340	1.1%	266.4	375	14.5%
Wicomico	86,947	247	0.7%	284.1	352	262	0.8%	301.3	331	6.1%
Worcester	45,604	75	0.2%	164.5	608	68	0.2%	149.1	670	-9.3%
Corrections	--	1,143	3.5%	--	--	302	1.0%	--	--	--
Total	5,080,666	32,974	100.0%	649.0	154	31,588	100.0%	621.7	160	-4.2%

Table 4 – CD4 Test Results During October 1, 2018 through September 30, 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2019, by Jurisdiction of Current Residence, Reported through March 31, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	103	96	93.2%	621	8.3%	8.3%	16.7%	66.7%
Anne Arundel	1,363	1,012	74.2%	628	7.1%	12.2%	15.2%	65.5%
Baltimore City	10,823	8,278	76.5%	596	9.9%	12.7%	16.1%	61.4%
Baltimore	3,527	2,627	74.5%	638	7.4%	10.8%	15.2%	66.6%
Calvert	127	106	83.5%	678	5.7%	12.3%	12.3%	69.8%
Caroline	64	57	89.1%	683	1.8%	10.5%	12.3%	75.4%
Carroll	165	120	72.7%	663	5.0%	11.7%	13.3%	70.0%
Cecil	144	93	64.6%	576	8.6%	5.4%	22.6%	63.4%
Charles	624	484	77.6%	628	7.9%	12.0%	15.5%	64.7%
Dorchester	145	124	85.5%	634	4.8%	13.7%	16.9%	64.5%
Frederick	449	345	76.8%	610	5.2%	8.7%	15.9%	70.1%
Garrett	16	13	81.3%	851	0.0%	7.7%	30.8%	61.5%
Harford	500	379	75.8%	582	9.0%	12.4%	17.4%	61.2%
Howard	678	520	76.7%	636	6.0%	10.4%	16.3%	67.3%
Kent	46	40	87.0%	696	2.5%	5.0%	10.0%	82.5%
Montgomery	3,605	2,608	72.3%	608	6.9%	10.9%	16.8%	65.4%
Prince George’s	7,854	6,095	77.6%	609	7.8%	11.5%	16.1%	64.6%
Queen Anne’s	54	40	74.1%	711	7.5%	17.5%	10.0%	65.0%
Saint Mary’s	159	125	78.6%	600	7.2%	16.8%	17.6%	58.4%
Somerset	92	81	88.0%	614	7.4%	13.6%	9.9%	69.1%
Talbot	78	65	83.3%	533	10.8%	20.0%	15.4%	53.8%
Washington	340	273	80.3%	639	5.9%	8.8%	17.6%	67.8%
Wicomico	262	213	81.3%	594	13.1%	13.6%	15.5%	57.7%
Worcester	68	56	82.4%	638	3.6%	8.9%	21.4%	66.1%
Corrections	302	244	80.8%	653	6.1%	7.4%	18.4%	68.0%
Total	31,588	24,094	76.3%	612	8.2%	11.7%	16.1%	64.0%

Table 5 – Viral Load Test Results During October 1, 2018 through September 30, 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on September 30, 2019, by Jurisdiction of Current Residence, Reported through March 31, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	103	96	93.2%	91.7%	9,562
Anne Arundel	1,363	1,052	77.2%	89.3%	6,710
Baltimore City	10,823	8,748	80.8%	86.4%	11,276
Baltimore	3,527	2,752	78.0%	89.6%	11,700
Calvert	127	104	81.9%	95.2%	2,650
Caroline	64	55	85.9%	89.1%	1,655
Carroll	165	127	77.0%	91.3%	36,700
Cecil	144	98	68.1%	77.6%	11,250
Charles	624	494	79.2%	89.1%	2,250
Dorchester	145	122	84.1%	94.3%	23,890
Frederick	449	349	77.7%	93.1%	3,307
Garrett	16	12	75.0%	100.0%	--
Harford	500	383	76.6%	89.3%	14,679
Howard	678	534	78.8%	91.8%	6,410
Kent	46	41	89.1%	85.4%	465
Montgomery	3,605	2,617	72.6%	91.0%	6,100
Prince George's	7,854	6,133	78.1%	88.4%	10,200
Queen Anne's	54	41	75.9%	90.2%	153,680
Saint Mary's	159	129	81.1%	88.4%	9,320
Somerset	92	82	89.1%	85.4%	4,065
Talbot	78	66	84.6%	93.9%	5,415
Washington	340	273	80.3%	89.4%	9,789
Wicomico	262	213	81.3%	88.7%	21,400
Worcester	68	57	83.8%	93.0%	17,335
Corrections	302	238	78.8%	88.2%	2,685
Total	31,588	24,816	78.6%	88.4%	10,000